

FRANTI, A.; PETTIG, E.; TURAY, I.

Influence of thioglycolic acid on the metabolism of yeast cells.

P. h. (BIOLOGIAI KÖZLEMÉNYEK) Budapest. Vol. 5 No. 1, 1957.

30: Monthly Index of East European Accessions (ALEI) Vol. 6, No. 11 November 1957.

SEBEK, Vaclav, Doc.; KRAMINEROVA, Cecilia

Considerations on the present state of contraception. Cesk. gyn.
24[38] no.8:666-668 0 '59.

1. Antikoncepcni poradna gyn.-por. odd. nemocnice v Motole, prednosta
doc. V. Sebek.
(CONTRACEPTION)

OSEL, V., red.; BELOV, V., red.; GALKIN, S., red.; KRAMIEOV, A.,
red.; SMIRNOV, K., red.; SHOSTAKOVSKIJ, V., red.; SIMEONOV, N.,
red.

[Virgin-land planet] Planeta Tselina. Moskva, Molodaia
gvardiia, 1965. 157 p. (MIRA 18:4)

KRAMINOV, Daniil Fedorovich; KOROTKOV, Yu., redaktor; BOBROV, A., tekhnicheskiy redaktor.

[Encounters in America; sketches] Amerikanskie vstrechi; ocherki.
[Moskva] Izd-vo TsK Vsesm "Molodaia gvardiia," 1954. 279 p.
[Microfilm] (MLRA 8:2)
(United States--Description and travel)

KRAMINOV, D. F.

KRAMINOV, D. F.

In double chains. Sov. profsoiuzy 2 no.6:74-83 Je '54. (MIRA 7:7)
(United States--Trade unions) (Trade unions--United States)

KRAMINOV, Danil Fedorovich; SEREBRYANNIKOV, P., redaktor; KIRILLINA, L.,
tekhnicheskiy redaktor

[Through India; travel notes and sketches] Po Indii: putevye ocherki
i zarisovki. [Moskva] Izd-vo TsK VLKSM "Molodaya gvardiya," 1956.
(MLRA 9:11)
230 p.
(India--Description and travel)

KRAMINOV, Daniil Fedorovich; SEMKUNOV, N., redaktor

[In England; a journalist's notebook] V Anglii; zapiski zhurnalista.
Moskva, Izd-vo "Pravda," 1957. 47 p. (Biblioteka "Ogonek," no.32)
(Great Britain--Description and travel) (MLRA 10:7)

KRAMINOV, Daniil Fedorovich; KISSELEV, Ya., redaktor; MOROZOVA, G..
tekhnicheskiy redaktor

[On five continents; a Journalist's notebook] V piati chastiakh
sveta; zapiski zhurnalistika. [Moskva] Izd-vo TeK VLKSM "Molodaia
gвардия," 1957. 350 p.
(Voyages and travel)
(MIRA 10:11)

KRAMINOV, D.

"Through India; travel notes and sketches" by D. Kraminov. Book
review. Geog. v shkole 20 no.3:79 My-Ja '57. (MIRA 10:6)
(India--Description and travel)

TIMOKHIN, N.A.; BARINOV, I.G.; KRANNOVA, K.G.

Interfactory school for studying the chrome-emulsion tanning
method. Kozh.-obuv.prom. 3 no.8:15-16 Ag '61. (MIRA 14:10)
(Tanning)

KALMYKOVA, A.B.; KRAMINSKAYA, N.N.; VASILENKO, O.G.

Hemolysis reaction in hemorrhagic nephrosonephritis. Vop.
virus. 7 no.6:729-731 N-D '62. (MIRA 16:4)

1. Khabarovskaya protivochumnaya stantsiya i Irkutskiy
protivochumnyy institut.
(KIDNEYS—DISEASES) (HEMOLYSIS AND HEMOLYSINS)

KRAMINSKAYA, N. N.

"A Serological Type of Leptospira Isolated From an Eastern Field Mouse," by N. N. Kraminskaya, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, Vol 27, No 91, Sep 56, pp 54-57

On the basis of research conducted in the period 1950-51, it was established that the "Eastern" *Microtus* carried a serological type of *Leptospira* which was named P-183. The pathogen isolated from various organs and the urine of these rodents was found to be virulent to guinea pigs. Clinical symptoms of the resultant diseases in guinea pigs are described in detail. A graph shows a temperature curve of an experimentally infected guinea pig. Two tables are included to show cross hemagglutination and lysis reaction of strains akiyami B, P-183 and DV-P; and the reaction of agglutination and lysis of *Leptospira* P-183 and akiyami B with exhausted sera. It was concluded on the basis of these results that strain P-183 isolated from *Microtus fortis pellicens* Thomas was related in antigenic structure to *L. akiyami* B, and was homologous to the Titov strain (Nero type) of *Leptospira*. It was serologically established that strain P-183 had definite epidemiological and epizootological significance with regard to leptospiroses in the Far East.

Sum 1258

KRAMINSKAYA, N. N. and EKSIN, V. A.

"Spontaneous Leptospirosis in White Mice," by N. N. Kraminskaya and V. A. Eksin, Zhurnal Mikrobiologii, Epidemiologii i Immuno-biologii, Vol 27, No 9, Sep 56, pp 63-64

This article describes the investigation of Leptospira observed in the urine of white mice obtained from mouse-breeding houses for 1955 experiments on the etiology of Far Eastern leptospiroses. The presence of these pathogens was considered to be a highly significant observation in view of the fact that spontaneous leptospirosis in white mice has not heretofore been mentioned in Soviet literature and laboratory manuals.

On examination of exudate from the abdominal cavities of guinea pigs which had been experimentally infected with kidney emulsions prepared from white mice found to be carrying the disease, Leptospira were observed by direct and dark-field microscopy.

Two cultures of Leptospira isolated from the infected guinea pigs were found to be identical and grew well on a yeast medium. On the basis of the results of serological studies of these cultures, it was concluded that the strains isolated were a new serological type, which was named Leptospira muris. Further experiments are recommended to determine the epidemiological significance of this pathogen.

Sum 1258

ESKIN, V.A.; KRAMINSKAYA, N.N.; BURKUT, Yu. V.; IRLIN, Sh. P.; IZOTOV, P.V.

Epidemiology and clinical characteristics of Ussuri leptospirosis.
Zhur. mikrobiol. epid. i immun. 29 no.8:54-60 Ag '58. (MIRA 11:10)
(LEPTOSPIROSIS,
ussuri, epidemiol. in Russia & clin. aspects (Rus))

KLAMINSKIY, V. N.

"Leptospirosis in the far east of the USSR," p. 151

Desyatoye Soveshchaniye po parazitologicheskim problemam i
virovnochnyym bol'znyam. 22-29 Oktyabrya 1959 g. (Tenth Conference
on Parasitological Problems and Diseases with Natural Vectors 22-29
October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences
USSR and Academy of Sciences USSR, No. 1 234pp.

Antiplague Inst. of Siberia and the Far East/Irkutsk

KRAMINSKAYA, N.N.; ESKIN, V.A.

Spontaneous carrying of Leptospira in white laboratory mice in the
Far East. Soob.DVFAN SSSR no.11:157-159 '59. (MIRA 13:11)

1. 73-ya virusologicheskaya laboratoriya Dal'nevostochnoy oblasti.
(Soviet Far East--Leptospira)

ESKIN, V.A.; KRUMINSKAYA, N.N.; IZOTOV, P.V.; SOLDATOV, G.M.

Leptospirosis in muskrats in the Maritime Territory. Soob.DVZAN
SSSR no.11:159-161 '59. (MIRA 13:11)

1.73-ya virusologicheskaya laboratoriya Dal'nevostochnoy oblasti.
(Maritime Territory--Muskrats--Diseases and pests)
(Leptospira)

KRAMINSKAYA, N.N.

Results of a study of Far Eastern strains of new serotypes of
pathogenic leptospiros. Zhur.mikrobiol.epid. i immun. 30
no.3:54-58 Mr '59. (MIRA 12:5)
(LEPTOSPIRA,

pathogenic serotypes isolated in Far East (Rus))

KRAMINSKAYA, N.N. (g Ussuriysk); ESKIN, V.A. (g.Ussuriysk); ZHUK, N.F.
(g.Ussuriysk)

Etiology of periodic ophthalmia in horses. Veterinariia 36
no.12:13-17 D '59.
(Horses—Diseases) (MIRA 13:3)

KRAMINSKAYA, N.N.

Leptospiroses in domestic animals in Irkutsk Province.
Trudy Irk. NIIEM no. 7:150-160 '62 (MIRA 19:1)

1. Iz Irkutskogo protivochurnogo instituta Ministerstva
zdravookhraneniya SSSR.

Иркутск, 1982.

"Microbiology in the Far East," p. 107

Приложе. краеведческое по краеведческим проблемам "Микробиология и микробиологические проблемы и болезни севера" (Microbiology and Microbiological Problems and Diseases with Northern Land) 1982 October 1982, Moscow-Leningrad, 1982, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 296 pp.

Antiplague Inst. of Siberia and the Far East /Irktuk

KRAMINSKIY, V.A.

History of cholera epidemics in China. Izv. Irk. gos. nauch.-issl.
protivochum. inst. 21:3-18 '59. (MIRA 14:1)
(CHINA--CHOLERA, ASIATIC)

NIKOLAYEV, N.I., otv. red.; LENSKAYA, G.N., zam. otv. red.; PASTUKHOV, B.N., zam. otv. red.; FENYUK, B.K., zam. otv. red.; ISHUNINA, T.I., red.; AKIYEV, A.K., red.; DOMARADSKIY, I.V., red.; DROZHEVKINA, M.S., red.; ZHOVTYY, I.F., red.; KOROBKOVA, Ye.I., red.; KRAMINSKIY, V.A., red.; KRATINOV, A.G., red.; LEVI, M.I., red.; LOBANOV, V.N., red.; MIRONOV, N.P., red.; PETROV, V.S., red.; PLANKINA, Z.A., red.; PYPINA, I.M., red.; SMIRNOV, S.M., red.; TER-VARTANOV, V.N., red.; TIFLOV, V.Ye., red.; FEDOROV, V.N., red.; PARNES, Ya.A., red.; PRONINA, N.D., tekhn. red.

[Especially dangerous natural focus infections] Osobo opasnye i prirodnoochagovye infektsii; sbornik nauchnykh rabot protivochumnykh uchrezhdenii. Moskva, Medgiz, 1962. 271 p.

(MIRA 16:5)

(COMMUNICABLE DISEASES)

Kramisheva, N.V.

USSR/General Biology - Individual Development.

B-4

Abs Jour : Ref Zhur - Biol., No 4, 1956, 14369

Author : Kramisheva, N.V.

Inst : -

Title : Development of Retina in Groundling.

Orig Pub : Dokl. AN SSSR, 1956, 109, No 6, 1219-1221

Abstract : The development of eye retina of groundlings is described. At the hatching stage the retina basically is formed by large weakly differentiated cells of spindle-like form, which reproduce by mitosis. Accumulation of melanin in the pigment epithelium begins soon after hatching, which coincides with advent of blood to the eye. Before transition to active nutrition, layers of retina are formed. In the layer of optical cells the number of cones exceeds the number of rods about tenfold. In pigment epithelium cells offshoots appear. With the beginning of active nutrition (on the 9th-11th day) the length of offshoots in

Card 1/2

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USSR/General Biology - Individual Development.

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B-4

Abs Jour : Ref Zhur - Biol., No 4, 1956, 14369

the optical and pigment cells is increased. During the first month of development formation of all retinal layers, pigment epithelium and other parts of the eye takes place; however, a clear reaction to light appears only at the end of the second month.

Card 2/2

KRAMKOVA, N.I., TSVETKOV, V.S., ABELEV, G.I., POSTNIKOVA Z.A. (USSR)

"Isolation of the Specific Antigens of Neoplastic and Normal Tissues by
Methods of Preparatory Immunoelectrophoresis and Immunofiltration"

Report presented at the 5th Int'l Biochemistry Congress,
Moscow, 10-16 Aug. 1961

CZECHOSLOVAKIA

VECEREK, B.; KRAML, J.; PELICOVA, H.; STEPAN, J.; CHMELAR, M.;
STIPEK, S.

1. Institute for Medical and Forensic Chemistry, Faculty
of General Medicine, Karlovy University, Prague - (for all).

Prague, Collection of Czechoslovak Chemical Communications,
No 11, November 1965, pp 3964-3968.

"Phosphatases. Part 2: Changes in the composition of human
intestinal and kidney alkaline phosphatase during purifi-
cation."

(6)

PROKES, Jaroslav; MIKETUKOVA, Vera; KRAML, Jiri

Detection of a new peroral antidiabetic chlorpropamide (P-607)
in the blood serum.

1. Laborator pro toxikologii a soudni chemii a I. ustav pro chemii
lekarskou University Karlovy v Praze, prednosta prof.dr. Karel Kacl.
(ANTIDIABETICS blood)

KRAML, J.

Insulin antibodies and nonspecific interaction between insulin and serum proteins. *Cesk. fysiol.* 14 no.3:205-232 My'65.

1. I. ustav pro chemii lekarskou a soudni fakulty vseobecneho lekarstvi Karlovy University, Praha.

KRAML, J., PROKES, L., PELICHOVA, Daneta, CHMELAR, M., KAPL, K.

The immunological properties of antibodies to α_2 -macroglobulin in patients with human α_2 -macroglobulin in the following diseases.
(Prague) 9 no. 2821-124 - M. 1978.

1. Dept. of Medicine and Preventive Medicine, Charles University,
University, Prague.

*

PELICOVA, Irena; KRAML, J.; CIMELAR, M.; VECEREK, B.

Precipitating and binding antibodies against human intestinal alkaline phosphatase. Folia biol. (Praha) 11 no. 3:208-214 '65

1. First Department of Medical and Forensic Chemistry, Faculty of General Medicine, Charles University, Prague.

KRAML, Jiri; PROKES, Jaroslav; KACL, Karel; PELICOVA, Iana; FOIT,
Richard, SIEBEROVA, Ruzena; KOLAR, Miroslav

Use of labelled insulin for detection of insulin antibodies. I.
Detection of insulin antibodies with electrophoresis in agar.
Vnitri lek. 11 no.1-17 Ja '65

I. I. ustav pro chemii lekarskou a soudni FVL UK (prednosta
prof. dr. Karel Kacl, DrSc.,); II. vnitri klinika FDL UK
Fakultni nemocnice Pod Petrinem (prednosta: prof. dr. Richard
Foit, DrSc.) a Biofysikalni ustav FVL UK (prednosta - doc. dr.
Zdenek Dienstbier, DrSc.).

L 21473-66

ACC NR: AP6011982

SOURCE CODE: CZ/0057/65/000/007/0287/0292

AUTHOR: Kraml, Vaclav (Engineer)

ORG: Bila Cerkev Iron Works, Hradek u Rokycan (Zelezarny Bila Cerkev)

40

TITLE: Intensification of coal-gas production by oxygen

B

SOURCE: Hutnik, no. 7, 1965, 287-292

TOPIC TAGS: manufactured gas, oxygen, carbon monoxide, hydrogen, nitrogen, methane, furnace

ABSTRACT: Normal coal gas resulting from air gasification contains 54% by volume of nitrogen. The use of oxygen allows a drastic reduction in nitrogen content. The importance of the combustion temperature is explained. The use of oxygen in coal gas production, apart from reducing the N₂ content, increases the decomposition of steam and thereby the formation of CO and H₂, and allows a higher amount of steam to be used in the reaction. The content of tar in the gas increases with decreasing N₂: the content of CH₄ does not change; the calorific value of the gas increases. Practical experience showed an increase in the calorific value of the gas from 1,445 to 1,569 kcal/m³ at STP (representing an increase of 8.5%); the furnace capacity increased with the better gas quality from 5.24 tons/hr to 5.40 tons/hr (representing an increase of 3%). Orig. art. has: 7 figures and 4 tables. [JPRS]

SUB CODE: 13 / SUBM DATE: none / OTH REF: 003

Card 1/1ddas

2

SPYNIK, A. J. VSEOB'YAVKA, L. I.

Effect of oxidation-reduction conditions on the formation of vitamin
B₁₂ by propionic acid bacteria. Mikrobiologiya 35: no. 2, 403-414
My-Je 'et al. (MRA 18.12)

1. Biologicheskii-fakultet Moskovskogo gosudarstvennogo
universiteta. Submitted March 25, 1965.

MAREK, N.; SIPOS, M.; STUR, J.K.; ZHARVAS, J.; KRAMLI, A.

Continuous culturing of algae in artificial illumination. Acta
biol. acad. sci. Hung. 16 no.1:43-49 '65.

1. Institute of Medical Chemistry, Medical University, Szeged
(Head: A. Kramli). Submitted July 20, 1964.

PROCESSES AND PROPERTIES INDEX

new synthesis of 3-methylinquinoline derivatives
 Gyula Bruckner, Jr., and Andras Kramli, *Magyar Koz. Folyoirat* **43**, 21-31 (1967). α -3,4-Methylenedioxypyphenyl- β -phenylacetylaminopropanol, made from the β -acetylaminopropanol prep'd. according to a former method (C. A. 69, 5829), m. 130-8°. β -Homopiperonylamino analog, m. 152-3°. β -Homoveratroylamino compd., m. 139°. β -Benzoylamino compd., m. 135°. β -Piperonylamino compd. (I), m. 150°. 4-Benzyl-3-methyl-6,7-methylenedioxypyquinoline, prep'd. from I, m. 119. 1-Homopiperonyl compd. showed a fluorescence in the crude state which disappeared after recrystn., it, m. 140 (° identical with Merck eupavetine). Its HCl salt m. 210° under 2 mm. 1-Ph compd., m. 148. 1-Piperonyl compd. (neopavetine Merck) (II), m. 187°. In the prep'n. of II an intermediary product is β -piperonylaminoisoflurole, m. 107-8°.

S. S. de Finilly

APPENDIX A METALLURGICAL LITERATURE CLASSIFICATION

en

The electrolytic reduction of the aliphatic nitro group
V. Bruckner, A. Kádár and E. Vinkler, *Acta Lit. Sci.
Reipub. Ung., Francisco-Josephinae, Sect. Chem.,
Mineral. Phys.*, 6, 145-50 (1938). A Cu or Pb tube closed
at its lower end serves as a cathode. It is contained in a
porous clay cell filled with the catholyte, soln. of the nitro
compd. in a mixt. of glacial acetic acid, alk. and concd
HCl. This porous cell is surrounded by the anode (a
cylindrical Pb sheet or Pt wire) in a beaker filled with the
anolyte (20% H₂SO₄). The amount of anolyte is sufficient
to maintain the same level in both parts of the app. To
effect reduction to hydroxylamine deriv., the following
conditions are proposed: (a) technical Pb or Cu as a cath-
ode, (b) room temp. of the catholyte, (c) a c. d. of 0.03-4
amp. per sq. cm. of cathode surface and (d) a max. of 1.3
times theoretical value of the current. To reduce to amine
the conditions are: (a) pure Pb as cathode, (b) temp. of
catholyte 50-60°, (c) c. d. 0.07 amp. per sq. cm. of cathode
surface and (d) 2-2.5 times the theoretical current. The
reaction product usually is isolated by neutralization of the
soln. with a satd. aq. soln. of AcONa and evapn. under
low pressure not over 50° to 0.1 the vol. The exptl. data
show good yields.
S. S. de Finny

ASQ-15A METALLURGICAL LITERATURE CLASSIFICATION

10
The preparation and acylation of anethole pseudo
nitroso. Andras Krandl. *Mazsor. Rev. Tokaiakai
Muzeum* **10**, 432-51 (1938). Anethole in ether was layered
on aq. NaNO_2 and 4.5 l. of 20% HgSO_4 slowly added.
The end of reaction was shown by a slight brown color.

11
From 500 g. anethole was obtained 240 g. pseudo-
nitroso, m. 120.8°. This was suspended in Al_2O_3 and
treated with H_2PO_4 . The mixt. was poured into water
and the 1-(*p*-methoxyphenyl)-2-nitroprop-1-ene formed
was dissolved in ether, washed with dil. Na_2CO_3 , dil. HCl and
distd. water, dried with Na_2SO_4 , the ether distd. off and
the oil distd. *in vacuo*, it b. 195°. The structure was
proved by hydrolysis with dil. KOH to be a nitroanethole,
m. 17.8°. S. G. de la Muy.

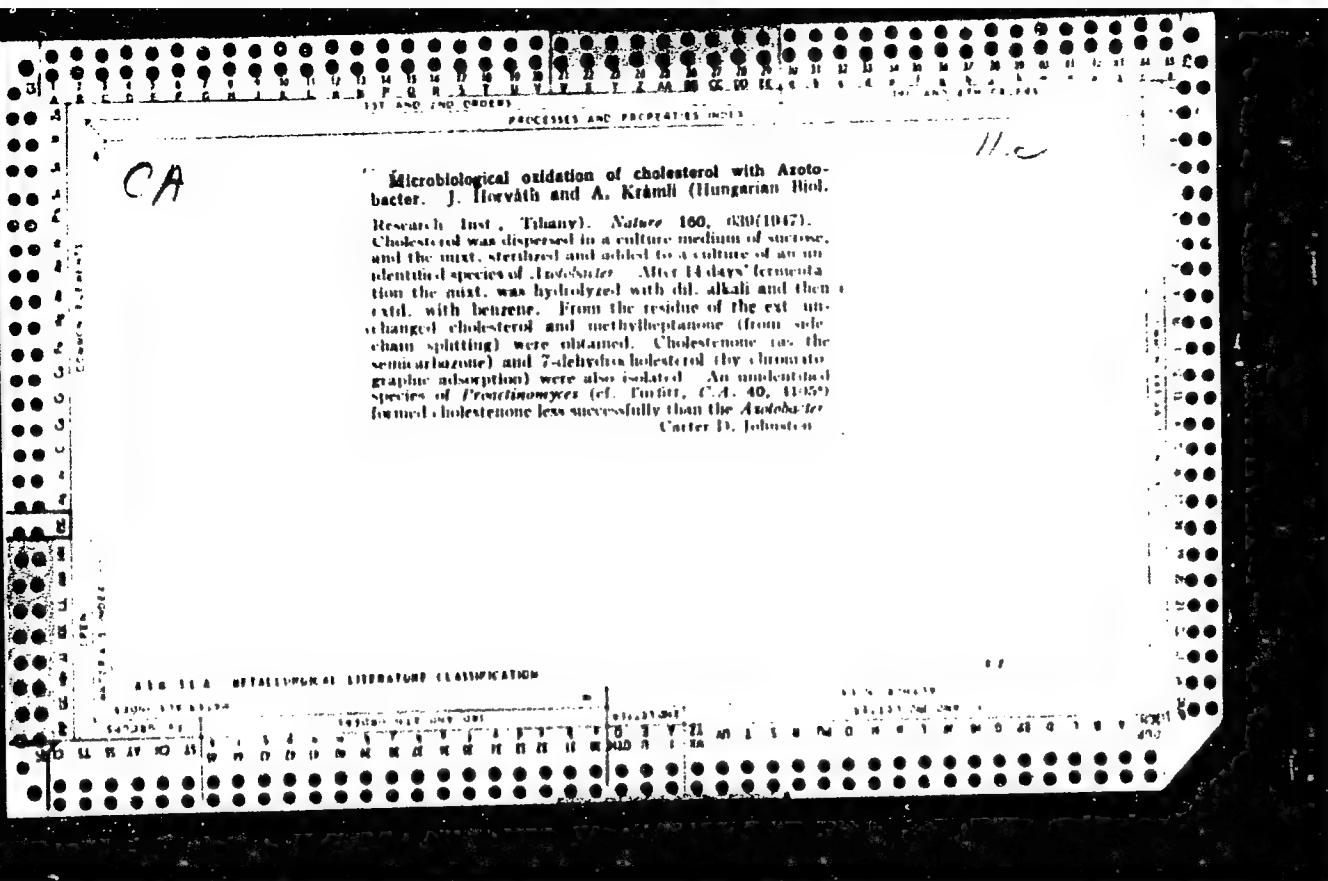
12
ASA SEA - METALLURGICAL LITERATURE CLASSIFICATION

Decomposition of saturated steroids and gallic acids or of their derivatives by electrolysis. Richter, Gedon, Vayda, and Solti, R. T. (Inventors), György Brückner and Andor Jánosi. Hung. 125,574, April 16, 1910. Saturated steroids, gallic acids or their derivs. are electrolyzed in an aprotic aq'dl. by two diaphragms. Pt or Au anodes and Pb cathodes are used. The temp. is maintained by cooling at 10-100°.

APPENDIX OF BIBLIOGRAPHICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/19/2000

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100 AND 101 999191		102 AND 103 999191	
		PROCESSED AND APPROVED	
<p>Anodic oxidation of cholesterol derivatives. Andras Kraml, <i>Acta Biol. Hung.</i>, 17, 317-42 (1947). — (1) Fifty g. dihydrocholesteryl acetate is dissolved in 1500 cc. glacial AcOH, then 150 cc. of an aq. soln. of 80% AcONa is added and the liquid poured into a 24-clay cell and electrolyzed in an app. described in detail. To avoid the diffusion of the anolyte into the catholyte chamber another positively charged electrolyte sep'd. by another diaphragm is located around the first diaphragm contg. the anolyte.</p> <p>The second diaphragm is immersed in the catholyte consisting of 1 part by wt. of 80% aq. AcONa and 6 parts by wt. of glacial AcOH. The electrodes are hollow cylinders, the anode of Au or Pt, and the cathode of Pb. In the second diaphragm compartment a Pt wire is bent into a circle, one end of which is connected to the anode. The (scaled.) c.d. for the inner anode is 80-100 millamp./sq. cm. The temp. of the anolyte is about 80°. The anolyte is vigorously stirred during electrolysis. The current used is 2.2 amp. hrs. for each g. of substance used at the start. After the end of electrolysis the anodic liquids are united and evapd. to 300 cc. <i>in vacuo</i>, the residue poured into 2 l. water and the oily ppt. formed is ext'd. with ether. The ether soln. is washed with 1% NaOH, then with water, dried, and evapd. The volatile oxidation products are removed from the residue by steam and then extracted with ether. The soln. is evapd. and dried.</p> <p>The remaining light brown substance is boiled in EtOH with semicarbazide acetate to yield the semicarbazone of the β-acetoxyethoxyholanone, m. 260-2°. Fifty g. epiketohydrocholesteryl acetate is dissolved in 1500 cc. glacial AcOH and electrolyzed as above, then prep'd. as previously described to obtain the semicarbazone of androsterone. Fifty g. cholesterol acetate dibromide and 250 g. anhyd. AcOK are dissolved in 2 l. glacial AcOH, and poured into a clay diaphragm cell. A graphite or hollow Pt cylinder anode is immersed and the whole diaphragm located in the catholyte consisting of a 1:1 mixt. of 50% aq. AcONa and glacial AcOH. A Pb cylinder serves as cathode. Current density is 80-100 millamp./sq. cm. cded. for the surface of the anode. The temp. should be kept at 80-90° by cooling. The current used is 1.6 amp. for each g. of cholesterol acetate dibromide. At the end of the electrolysis the anolyte is sep'd. and treated with 30 g. Zn powder on a water bath, filtered, the filtrate concd. to $\frac{1}{2}$ in <i>reco</i>, the residue poured into 2 l. water, the ppt. dissolved in ether. The ether soln. is shaken several times with 5% NaOH to remove CO_2 produced during oxidation, then dried and evapd. on the water bath. The residue is treated with steam to remove volatile substances, the residue dissolved with ether, the soln. dried and evapd. The residue is added to a soln. of 2 g. semicarbazide acetate in 25 cc. EtOH, and boiled on the water bath for several hrs. Colorless crystals of dehydroandrosterone semicarbazone are obtained m. 270-5° after recryst. from CHCl_3-methanol. To isolate dehydroandrosterone 100 mg. of this carbazole is suspended in a mixt. of 2 cc. EtOH, 0.5 cc. water, and 0.1 cc. concd. H_2SO_4. The sus-</p>			
<p>100 AND 101 999191</p> <p>102 AND 103 999191</p>			

penion is boiled on a water bath for 1 hr., neutralized with a 20% soln. of NaOH, 0.5 cc. of the NaOH soln. is added, the mixt. heated for 30 min. on the water bath, filtered hot, and the filtrate dilut. with an equal amount of water. The crystals are filtered, washed with 40% EtOH, dried, and recrystd. from petr. ether b. 65-80° to give silky needles of dehydroandrosterone, m. 118°.

István Füredi

11 C

CA

The microbiological transformation of sterols. I. The oxidation of cholesterol by *Azotobacter*. János Horváth and András Krámlík. *Archiv Biol. Hung.* 18, 19-24 (1948); cf. C.A. 42, 1689b. *Cholesterol* was isolated from compost. This anaerobic decomposes cholesterol to cholesterolone and to 7-dehydrocholesterol in 14 days at 31°. Higher aliphatic aldehydes and ketones could be detected. Higher aliphatic aldehydes and ketones could be detected. István Finály

KEMLI, A. 1948

(Hung. Biol. Res. Inst. Tihany)

"Microbiological Oxidation of Sterols."

Nature, 1948 162/4120 (619)
No abstr. in Exc. Med.

KROMPECHER, I.; KRAMLI, A.; LELKES, G.; VALYI-NAGY, L.; SZABO, S.

Antirachitic effect of egg shell. Acta physiol. hung. 4 Suppl:61-62
1953. (CLML 25:1)

1. Of the Institute of Biochemistry of Szeged University.

KRAMLI, A

BUNQ,

Effect of heavy metals on respiration and oxidation-reduction potentials of *Streptomyces griseus* cultures. A. Kramli, R. F. Pettit, and P. Kiss (Siegen Univ.). *Acta Acad. Sci. Hung.* 2, 39-49 (1954) (in German). — When cultures were raised on medium lacking trace elements, the oxidation-reduction potential stayed at approx. 300 mv. With 10 γ/ml. Mn or Mn + Fe, the oxidation-reduction potential underwent a max., while the respiration underwent a minimum. Respiration was increased by 20-60 γ/ml. Fe and most strongly by 100 γ/ml. V⁴⁺, which inhibited streptomycin production. The oxidation-reduction potential was raised by addn. of V⁴⁺ and relatively unaffected by Zn, Mn, Fe, and vanadate ions, except transiently. It was raised by addn. of metallic V and Mn, reduced by Cu, and unaffected by Fe, Ni, Co, and Cr. — S. W. B., Jr.

KRAMLI, A.; FULAY, G.; LANTOS, J.

Method for isolation of steroid-oxidizing microorganisms. Acta
microb. hung. 2 no.1-2:145-149 1954.

1. Medizinisch-Chemisches Institut der Universitat Szeged.

(BACTERIA, metab.

oxidation of steroids, isolation method)

(STEROIDS, metab.

oxidation by bact., isolation method)

(OXIDATION-REDUCTION

oxidation of steroids by bact., isolation method)

KRAMER, F.

H U N G

2. Production of streptomycin in pilot columns. A. Kraml, A. Kotek, B. Malinovska, M. Novotna, G. Pálmanová, J. Tůma, J. Z. Šimáček, M. Hora, J. 79-041064X in Germany. - The advantages of surface cultures are retained in the app. of a vertical pilot column of a vertical series of 10 plate columns above a base cylinder and provided with devices for adding media and inoculum and taking samples rapidly and without risk of contamination. It is claimed that this allows production of surface cultures of streptomycin (I) to be conducted on an industrial scale as well as for various investigative procedures. In surface cultures, production of I was max. (80-900 units/ml.) in a microclimate of air with 0.20 mm. Hg partial pressure of CO₂. With higher CO₂ partial pressures (0.8 mm., 13.8 mm. Hg), production of I was small. Production of I was max. when the oxidation-reduction potential (ORP) was at its lowest value. In cultures superinfected by bacteriophage, there occurred a marked increase in oxidation-reduction potential, which fell when *Streptomyces* again prevailed. With a high CO₂ content in the air over the culture (13.8 mm. Hg), the bacteriophage did not develop. It acted very faintly, while the production of I was very small or absent.

G. M. Hockings

YILMAZ, L., KARAKOCA, I., YILMAZ, I.

Changes in relax potential of surface cultures of Streptomyces griseus effected by infections. In English. p. 233, (ACTA PHARMA, Budapest, Hungary). Vol. 5, No. 1/2, 1954.

(6: Monthly List of East European Acquisitions, (EAI) 10, Vol. 4, No. 5, May 1954, Uncl.

KRAMER, A.

~~THE change in the oxidation-reduction potential of~~
~~Staphylococcus aureus under the action of penicillin. A~~
~~Krammer, A. and S. B. (Med. Univ. Szeged)~~
~~Acta Microbiol. Acad. Sci. Hung. 1964, 11 (1964) (in English)~~
~~In sensitive strains 0.01 Oxford units of penicilla per ml.~~
~~limited the usual but a marked reduction potential~~
~~Resistant strains did not respond (0.1 units per ml. S. B.~~

PETTKO, E.F.,; KISS, P.,; KRAMLI, A.

The effect of heavy metals on the respiration and redox potential of streptomyces. Acta microb. hung 3 no.1-2:35-39 1955.

1. Chemisches und Biochemisches Institut der Medizinischen
Universitat, Szeged.

(STREPTOMYCES

aureofaciens, eff. of heavy metals and on respiration
& redox)

(METALS, eff.

heavy metals, on resp. & redox potential of
Streptomyces aureofaciens)

✓ 2225. Effect of penicillin and streptomycin on the redox potential of sensitive and resistant strains of *Staphylococcus aureus*. A. Kráml, J. K. Stur, and P. Turay. *Acta physiol. Acad. Sci. hung.*, 1953, 8, 15-24. Parallel continuous determinations of redox potential (RP) and bacterial cell count by a Pulsrich nephelometer during growth of penicillin resistant and sensitive *S. aureus* strains were made. The RP of sensitive strains exposed to antibiotics rose compared to that of control strains; the RP of resistant strains under identical conditions remained the same. The method is suitable for the rapid determination of the degree of resistance and also for the detection of minute quantities of antibiotics. (Hungarian)

3

A. B. L. BEZNÁK

Krámli, A.

Effect of metals on respiration and oxidation-reduction potential of *Streptomyces aureofaciens*. E. F. Pesti, P. Kiss, and A. Krámli (Med. Univ., Szeged). *Acta Microbiol. Acad. Sci. Hung.* 3, 39-4 (1958) (in German).—Respiration of a 3-day-old mycelium of *S. aureofaciens* increased by the addition of 00 γ Fe or Mo/ml., decreased by the addition of 20-60 γ Cu, Cr, Pb, or Zn/ml., and was completely inhibited by 60 γ Cu/ml., while Al, Co, Mg, Mo, Ni, Si, and V were without effect. Oxidation-reduction potentials increased in the presence of Cd, Cu, Fe, and Pb, decreased in the presence of V and Zn, and were unaffected by Al, Co, Mg, Mn, Mo, Ni, and Si. Fe and Cu acted as oxidation-reduction buffers. Aluminum fermenters were recommended for the large-scale production of chlorotetracycline. Cf. C.I. 57, 1774c.

KRAALI, A.; PETTKO, F.; SIPOS, M.

Changes in redox potential of bacterial culture media under
the influence of UV and X rays. p. 21. BIOLOGIAI KOZLEMENYEK
(Magyar Biologial Tarsasag. Altalanos Biologial Szakosztaly)
Budapest. Vol. 4, no. 1, 1956.

SOURCE: East European Accessions List (EEAL) Library of Congress,
Vol. 5, no. 12, December 1956.

KRAMLI, A.

Effect of penicillin and streptomycin on the oxidation-reduction potential of sensitive and resistant strains of *Micrococcus pyogenes* var. *sacculus*. A. Krámlí, J. K. Star, and P. Turay (Univ. Med. School, Szeged). *Acta Physiol. Acad. Sci. Hung.* 8, 15-24 (1958) (in English); cf. *C.I. 49*, 3302g. A satd.-calomel electrode oppositely connected with a smooth Pt or Au electrode was used for detg. the oxidation-reduction potential (I). The developing I was measured by a Mettler titroscope. The electrodes were immersed deeply into the culture so that I was detd. under practically anaerobic conditions. The I of a sensitive strain exposed to bacteriostatic concentrations of penicillin (II) or streptomycin showed an initial decline similar to untreated cultures (III). Later, in contrast to III whose I continued to decline, the I of the antibiotic containing cultures began to rise. Changes in I with time in a resistant strain exposed to II practically paralleled I changes in III if the concn. of II didn't exceed the limit of the strain's resistance.

L. H. Muchel

MD

②

K. K. K. W. A.

action of oxidation-reduction buffers on the metabolism of microorganisms. II. Investigation of oxidation-reduction potentials in *Neurospora crassa*. A. Katalin, János Látkov and Imre Szu. (Univ. Szeged, Szeged, Hungary). *Acta Microbiol. Acad. Sci. Hung.* 1954, 3, 111-120. (M. D. 1954, 17, 111-120). The investigators suggest that Cytocromes C and C₁ replaced the C₂ bands of some of the oxidation-reductions of the tricarboxylic acid cycle. The reduction of the C₂ bands through cleavage of the bond owing to spontaneous enzymic reduction and restored the initially changed oxidation-reduction potential. Cytocromes C brought about a prolonged increase in the oxidation-reduction potential in the yeast cultures. In the presence of its own metabolite substance the cell did not develop an oxidation-reduction buffer effect. III. Effect of thioether acid on ergosterol production in yeast cultures. A. Katalin and János Látkov. *Acta Microbiol. Acad. Sci. Hung.* 1954, 3, 121-131. (M. D. 1954, 17, 121-131). HSCN(CO)₂H which lowers considerably the oxidation-reduction potential of cultures, nearly doubled the yield of ergosterol. IV. Changes of thioether production in shaken cultures of *Penicillium ashbyi*. A. Katalin and A. Szabó. *(Ibid.* 1954, 17, 203). Treatment of productive cultures of *P. ashbyi* with young cultures resulted in a temporary prolongation of the second phase of the oxidation-reduction potential curve and thereby an increased production of thioethers.

William Braker

KRAMLI, A.; LANTOS, J.

Action of redox systems on the metabolism of microorganisms. III.
Effect of thioglycolic acid on ergosterol production in yeast cultures.
In German. p. 193. ACTA BIOLOGICA. (Magyar Tudomanyos Akademia)
Budapest. Vol. 6, no. 3/4, 1956.

SOURCE: East European Accessions List (EEAL) Library of Congress,
Vol. 5, No. 12, December 1956.

KRAMLI, A.; SZABO, A.

Action of redox systems on the metabolism of microorganisms. IV.
The change of riboflavin production in shaken cultures of
Eremothecium ashbyii. In German. p. 197. ACTA BIOLOGICA.
(Magyar Tudomanyos Akademia) Budapest. Vol. 6, no. 3/4, 1956.

SOURCE: East European Accessions List (EEAL) Library of Congress,
Vol. 5, No. 12, December 1956.

3
Changes in the metabolism of *Escherichia coli* grown on irradiated rabbit erythrocytes. J. K. Knutson, H. Petrik, and M. S. Gopinath. *Microbiology* (London), Volume 175, 1969 (1969). Cultures of *Escherichia coli* were inoculated into medium containing irradiated erythrocytes. Growth of the culture only started on complete exhaustion of the oxidation-reduction capacity, which had increased on the irradiation. Therefore the growth of the cells and the oxidation-reduction potential of the culture corresponded to that of the controls. Production of hydrogen peroxide, however, decreased significantly. A. B. Teer

KRAMLI, A.

HUNGARY/Microbiology - General Microbiology

F-1

Abs Jour: Ref Zhur - Biol., No 18, 1958, 81410

Author : Kramli, A. Pettko, E., Turay, P.

Inst : -

Title : Effect of Thioglycollic Acid on the Metabolism
of Yeast Cells.

Orig Pub: Biol. kozl., 1957, 5, No. 1, 45-49

Abstract: The fermenting power and carboxylase activity
of yeasts is increased by thioglycollic acid
under aerobic conditions, while the dehydrase
activity is unchanged. The quantity of ace-
taldehyde, which represents an intermediary
product in the fermentation process, is
increased in relation to the quantity of alcohol
formed. It is assumed that the acetaldehyde
remaining after oxidation into acetic acid

Card 1/2

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R00082602001

HUNGARY/Microbiology - General Microbiology

F-1

Abs Jour: Ref Zhur - Biol., No 18, 1958, 81410

enters the lipoid metabolism of cells and for
this reason, in the presence of thioglycollic
acid, the synthesis of ergosterol by yeasts is
increased.

Card 2/2

KRAMLI, A.

HUNGARY/Microbiology. General Microbiology. Physiology &1
and Biochemistry

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 62266

Author : Karpatic Stur Judit, Kramli Andres

Inst : -
Title : The Connection Between the Formation of Sorbose
and the Oxidation-reduction Potential in Cul-
tures of Acetobacter suboxydans.

Orig Pub : Biol. kzol., 1957, 5, No 1, 51-59

Abstract : The maximum number of cells in cultures of A.
suboxydans, grown in flasks on a shaker or in
metallic fermenters, coincided with a minimum
value of the oxidation-reduction potential (ORP).
After that, the value of ORP began to increase.
The accumulation of sorbose continued after the
rise of ORP. This is evidence that the forma-
tion of sorbose proceeds even in old and autoly-
zing cultures. Variation of the normal progress

Card : 1/2

HUNGARY/Microbiology. General Microbiology. Physiology F-1
and Biochemistry

Abs Jour : Ref Zhur - Biol., No 14, 1953, No 62266

of the QRP curve implies a contamination of
the culture and can be used for its rapid de-
tection. -- From the authors' summary.

Card : 2/2

KRAMLI, Andras)

Formation of riboflavin and ergosterol by the use of prolonged
fermentation methods. Vitaminny no.4:154-158 '59.

(MIRA 12:9)

1. Khimicheskiy i biokhimicheskiy institut Meditsinskogo
universiteta, Seged, Vengriya.

(RIBOFLAVIN) (ERGOSTEROL) (FERMENTATION)

SZEGED, HUNGARY.

KROMPECHER, Istvan; KRAMLI, Andras; VALYI-NAGY, Tibor

Significance of eggshell in the prevention and cure of rachitis. Elelm ipar 11 no.11/12:267-269 D'57.

1. Anatomiai Intezet, Debrecen (for Krompecher). 2. Orvosi Kemiai Intezet, Szeged (for Kramli). 3. Gyogyszertani Intezet, Debrecen (for Valyi-Nagy).

L 7863-66 EWT(1)/FS(v)-3 DD

ACC NR: AT5028036

SOURCE CODE: HU/2501/65/016/001/0043/0049

AUTHOR: Marek, Nandor (Szeged); Sipos, Maria (Szeged); Stur, Judit k. (Szeged);
Szarvas, Janos (Szeged); Kramli, A. (Mead, Szeged)ORG: Institute of Medical Chemistry, Medical University, SzegedTITLE: Continuous culturing of algae in artificial illuminationSOURCE: Academia scientiarum hungaricae. Acta biologica, v. 16, no. 1, 1965, 43-49TOPIC TAGS: photosynthesis, algae, chlorella

ABSTRACT: A method for continuous cultivation of algae is described; this method can produce algae in sufficient quantities to inoculate larger culturing units. A diagram of the apparatus, which is based on the light-utilizing properties of the algae (Chlorella in these experiments) and on the theoretical principles of continuous cultivation, is given in the original article. Experiments showed that this system is self-regulatory in a certain light-intensity range: its productivity per unit volume of suspension remains constant at a rate of inflow of the medium between certain limits. The computed cell concentration values at different renewal periods must be taken as limits since the values obtained deviate approximately 10% from theoretical values. Orig. art. has: 1 figure and 12 formulas. [JS]

SUB CODE: LS/ SUBM DATE: 20Jul64/ OTH REF: 002/ ATD PRESS: 4147

Card 1/1

31
BH

L 23896-66 SCTB DD

ACC NR: AT6011827

SOURCE CODE: HU/2501/66/016/004/0319/0325

AUTHOR: Marek, Nandor (Szeged); Sipos, Maria (Szeged); Stur, Judit K. (Szeged);
Szarus, Janos (Szeged); Kramli, Andras (Szeged)
ORG: Institute of Medical Chemistry, Medical University, Szeged/ headed
by A. Kramli/

TITLE: Studies on the redox potential in algal culturesSOURCE: Academia scientiarum hungaricae. Acta biologica, v. 16, no. 4,
1966, 319-325

TOPIC TAGS: algae, redox potential, oxygen tension, plant growth

ABSTRACT: Redox potential (RP) measurements were carried out in algal cultures to investigate the influence of the daily periodicity of light and darkness on changes in RP values and to establish the relationship between RP and growth curves. It was found that RP values are subject to regular daily changes, and are higher and lower in light and darkness, respectively. The difference between the maximum and minimum values varies greatly depending on whether the cultures are grown in inorganic media or in those containing organic hydrocarbons. It is assumed that this might be caused by differing oxygen tensions due to difference in photosynthetic oxygen production in the various media. The regular relationship between daily RP maximum values and growth rate

Card 1/2

36

B+1

2

L 23896-66

ACC NR: AT6011827

of cultures is also discussed. Orig. art. has: 4 figures [Author's
abstract] [KS] O

SUB CODE: 06/ SUBM DATE: 23Apr65/ ORIG REF: 004/ OTH REF: 006/

Card 2/2 BK

(4)

REF ID: A

13/2501/66/016/004/0319/032

AUTHOR: Marek, Nandor (Szeged); Sipos, Maria (Szeged); Stur, Judit K. (Szeged); Szarvas, Janos (Szeged); Kramli, Andras (Szeged)
ORG: Institute of Medical Chemistry, Medical University, Szeged, Hungary
by A. Kramli/

TITLE: Studies on the redox potential in algal cultures

SOURCE: Academia scientiarum hungaricae. Acta biologica, v. 16, no. 1, 1966, 319-325

TOPIC TAGS: algae, redox potential, oxygen tension, plant growth

ABSTRACT: Redox potential (RP) measurements were carried out in algal cultures to investigate the influence of the daily periodicity of light and dark, i.e. on changes in RP values and to establish the relationship between RP and growth curves. It was found that RP values are subject to regular daily changes, and are higher and lower in light and in darkness, respectively. The difference between the maximum and minimum RP values varies greatly depending on whether the cultures are grown in inorganic media or in those containing organic hydrocarbons. It is assumed that this might be caused by differing oxygen tensions and the difference in photosynthetic oxygen production in the various media. The regular relationship between daily RP maximum values and growth

of cultures is also discussed. Orig. art. has: 4 figures [Author's
abstract] [NS]

2/2

- 184 -

KOULA, Vaclav, dr. inz.; KRAMLOVA, Marie, promovany chemik

Determination of secondary effects of esters and salts of substituted phenoxyacetic acids applied as cold aerosols on the content of reducing sugars and saccharose, on the activity of some enzymes, and on the content of biogenic and trace elements of weeds and cultivated plants. Rost výroba 10 no. 4:451-466 Ap '64.

1. Central Research Institute of Plant Production, Department of Plant Protection, Ruzyně.

KRAVY, A. S.

KRAVY, A. S. "A graphic calculation on nine live-burning furnaces using partial gas firing", Vest. stroit. materialy, 1946, Issue 7, p. 1-10.

SC: U-3042, 11 March '63, (Lettapis 'Zhurnal 'nykh Statey, No.7 1946).

KRAMM, A.S.; SHPAYER, A.L., red.; GARNUKHINA, L.A., tekhn. red.

[Lime production] Proizvodstvo izvesti. Izd. 2., dop. Moskva,
Gos.izd-vo lit-ry po stroit. materialam, 1957. 84 p. (MIRA 11:11)
(Lime)

KRAMM, Aleksandr Sergeyevich; NIKOLAYEVA, N.M., red.; GARNUKHINA, L.A.,
tekhn. red.

[Improving of lime firing in mine overfill furnaces] Intensifikatsiya
obzhiga izvesti v shakhtnykh pereklyuchayushchikh pechakh. Moskva, Gos. izd-
vo lit-ry po stroit., arkhit. i stroyit. materialam, 1958. 67 p.
(Limekilns) (MIRA 11:5)

~~SECRET~~
Efficient preparing of raw material. Stroim. 4 no.10:11-12
0 '58. (MIRA 11:11)
(Lime)

BERKH, Ye.M., kand.ekon.nauk; KORNYUSHINA, A.P., inzh.; KRAMM, A.S., inzh.;
BARLYAYEVA, M.S., inzh.; KHEYFETS, F.N., inzh.

Potentials for the growth of labor productivity in the lime
industry. Sbor. trud. ROSNIIMS no.20:119-125 '61. (MIRA 16:1)
(Lime industry--Labor productivity)

KRAMM, T.P.

Gypsum in iron ore sediments of the Kerch Peninsula. Trudy
Inst.min.resur. AN URSR no.2:28-36 '60. (MIRA 15:5)
(Kerch Peninsula--Gypsum)

YURK, Yu.Yu.; SHVYUKOV, Ye.F. [Shniukov, IU.F.]; KRAMM, T.P.

New finds of iron sulfate in the Kerch and Taman' iron ore deposits.
Dop.AN URSR no.9:1271-1276 '60. (MIRA 13:10)

1. Institut mineral'nykh resursov AN USSR. Predstavлено akademikom
AN USSR N.P.Semenenko.
(Crimea--Iron sulfate)

KRAMMER, Gergely

Evaluation of a multiple definite integral by computer. Koz fiz
kozl MTA 10 no.2:153-157 '62.

1. Szilardtestfizikai Laboratorium.

KRAMMER, Gergely

An extreme value property of the regular tetrahedron. Mat
lapák 12 no.1/2: 54-58 '61

KRAMMER, Ye.V.

DERKACH, V.S.; BELYAYA, O.S.; BULATSEL', A.M.; KVIAT, K.M.; TURMAN, Ye.P.;
KRAMMER, Ye.V.; ZVYAGINTSEVA, A.M.

Effectiveness of combined antibiotic therapy for chronic dysentery.
Zhur.mikrobiol.epid.i immun. no.3:54-59 Mr '55. (MLRA 8:7)

1. Iz mikrobiologicheskogo otdela (zav. prof. V.S.Derkach) Khar'-
kovskogo instituta vaktzin i syvorotok (dir. kandidat biologiche-
skikh nauk G.P.Cherkas) i profil'nykh yasley Kar'kova.

(DYSENTERY, BACILLARY, therapy,
antibiotics, combined ther.)
(ANTIBIOTICS, therapy,
dysentery, combined ther.)

KRAMNIK, I., starshiy inzh.

Interfactory school for metal-cutting tool specialists. NTO 4
no.1:29 Ja '62. (MIRA 15:1)

1. TSentral'noye byuro tekhnicheskoy informatsii Kuybyshevskogo
sovnarkhoza.
(Metal cutting tools)

KRAMNIK, I.I.

Seminar on the use of vibratory bunkers. Mashinostroitel' no.1:
44 Ja '62. (MIRA 15:1)
(Feed mechanisms)

PIKMAN, I.Ya., inzh. (Khar'kov); KRAMNIK, I.N., inzh. (Khar'kov)

Repair shops with high standards of production. Zhel. dor. transp.
47 no.9:57-61 S '65. (MIRA 18:9)

KRAMNIK, N., metodist

Colored asphalt concrete. Inform. biul. VDNKh no.10:16-17
0 '64 (MIRA 18:1)

1. Pavil'on "Transportnoye stroitel'stvo" na Vystavke dosti-
zheniy narodnogo khozyaystva SSSR.

KRAMNIK, T. A.

"Intensification of the Sintering of Krivoy Rog Ores by Small Additions of Burnt Lime." Cand Tech Sci, Dnepropetrovsk Order of Labor Red Banner Metallurgical Inst imeni I. V. Stalin, Min Higher Education USSR, Dnepropetrovsk, 1954. (KL, No 1, Jan 55)

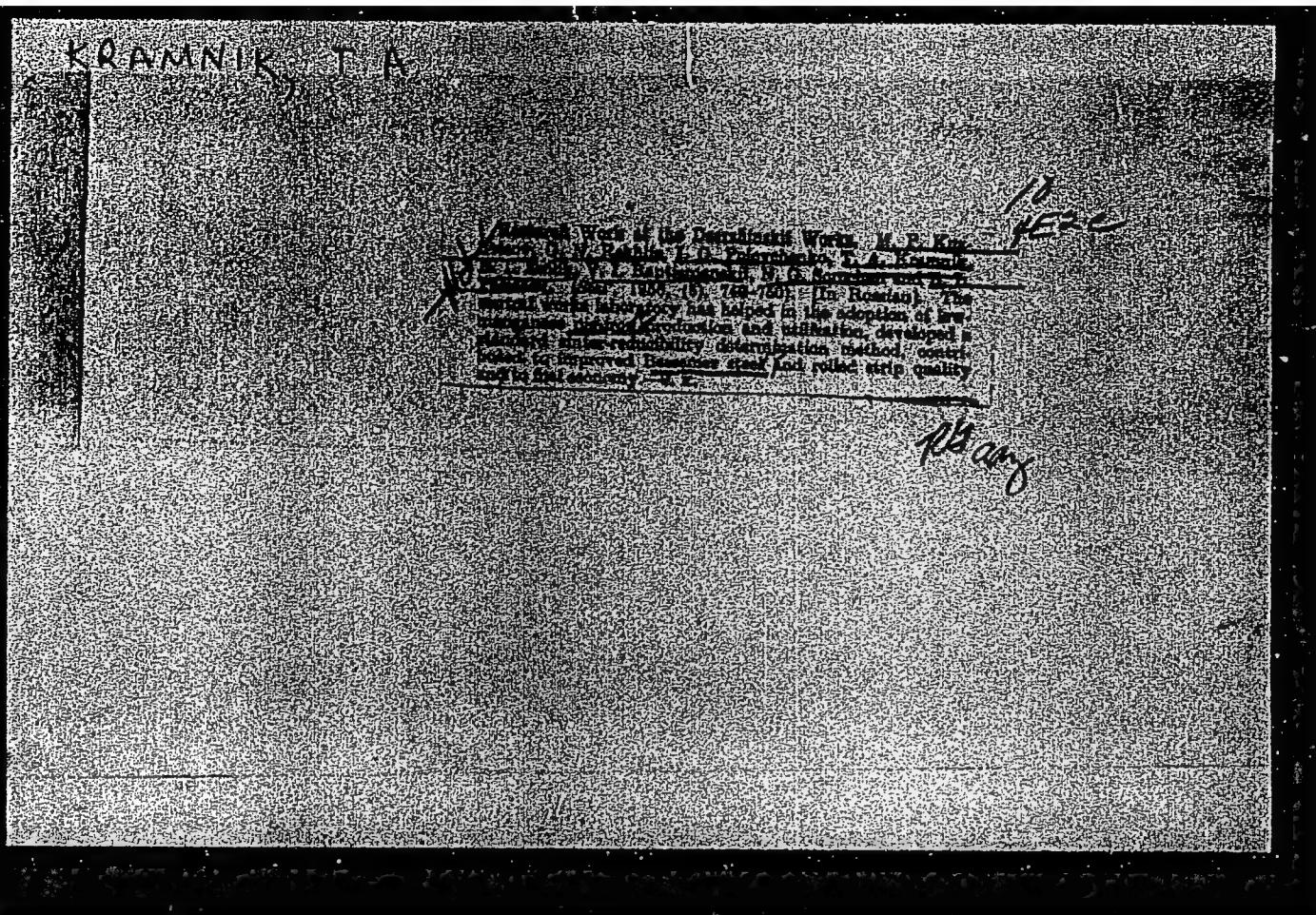
Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

KRAMNIK, T.A., kandidat tekhnicheskikh nauk; NECHESOVA, N.I., inzhener.

Conditions for increasing the rate of sintering for Bessemer and basic open-hearth manganese agglomerates. Stal' 15 no.10:880-886 O '55.

1. Zavod imeni Dzerzhinskogo.

(Dneprodzerzhinsk--Open hearth process)
(Dneprodzerzhinsk--Bessemer process)



KRAMNIK, T.A., kandidat tekhnicheskikh nauk.; SOROKIN, A.A., inzhener.

Experiments in burning limestone in the sintering plant. Stal' 16 no.9:
774-776 S '56. (MIRA 9:11)

1. Zavod imeni Dzerzhinskogo.
(Blast furnaces) (Limestone)

KRAMNIK, T. A.

SOV/137-58-8-16378

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 21 (USSR)

Author: Kramnik, T.A.

Title: The Industrial Method of Determination of the Reducibility of an Agglomerate (Zavodskoy sposob opredeleniya vosstanovimosti agglomerata)

Periodical: V sb.: Domennoye proizvodstvo. Moscow, Metallurgizdat, 1958, pp 16-25

ABSTRACT: A method for the determination of the relative reducibility of an agglomerate with a 0.15% precision in a current of electrolytic H₂ (99.7% H₂) has been developed and successfully applied at the im. Dzerzhinskiy metallurgical plant. The boat with the weighed test sample, placed in the reaction tube, is weighed after 10 min (during the preheating of the test sample the furnace is blown through with N₂). The determination lasts 30-40 min. The optimal speed of H₂ (6.2-3.5 cm/sec), temperature of the test (700°C), weight of the test sample, and grain size are established.

Card 1/1 1. Ores--Reduction 2. Hydrogen--Performance 3. Irons N. L. (Metallurgy)--Physical properties

SOV/137-58-8-16282

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 7 (USSR)

AUTHOR: Kramnik, T.A.

TITLE: Sintering of Fluxed Sinter From Krivoy Rog Ores (Spekaniye oflyusovannogo aglomerata iz krivorozhskikh rud)

PERIODICAL: V sb.: Domennoye proiz-vo Moscow, Metallurgizdat, 1958, pp 44-59

ABSTRACT: On the conversion of the im. Dzerzhinskiy Plant to the sintering of fluxed Bessemer and open-hearth sinter (S) of 0.5-0.9 basicity from Krivoy Rog ores, the output of the sintering machines rose by 7.7%, the blast-furnace volume utilization factor improved, coke consumption dropped, the reducibility of the S improved, the FeO contents thereof dropped sharply (from 21 to 10%), the barrel-mill test-index reading was poorer (up to 25.8% instead of 22.4%), the Fe contents diminished from 60.33 to 55.91% of the unit dry granular weight of the charge, and the volumetric weight of the S diminished. No artificial bed is used in the sintering. The output rate of the pallet belt rose only when Bessemer S was sintered (on the average from 78.6 to 87.9 t/belt-hour) and decreased slightly

Card 1/2

SOV/137-58-8-16282

Sintering of Fluxed Sinter From Krivoy Rog Ores

in the sintering of manganeseiferous open-hearth S owing to the impairment of the charge composition. When the basicity of the S >1.0, its mechanical properties are noticeably impaired (the friability of the S increased sharply when large additions of limestone were made). To improve the barrel-mill test index it is necessary to add a little burnt lime to the S mix, to grind the limestone more finely, and to mix the charge well. When the basicity rose > 1.0, the increase in sintering rate slowed down, the fuel consumption was increased, and the yield of good product and the output rate of the pallet belt declined.

1. Ores--Sintering 2. Sintered ores--Properties 3. Sintering furnaces
--Performance

N.L.

Card 2/2

YEFIMENKO, G.G., inzh.; VOYTANIK, S.T., inzh.; YEFIMOV, S.P., inzh.; MACHKOVSKIY, A.I., inzh.; RUDKOV, A.K., inzh.; RUDKOVSKIY, G.I., inzh.; Prinimali uchastiye: KOVALEV, D.A.; GOTOVTSOV, A.A.; VASIL'YEV, G.S.; ZEMLYANOV, A.A.; KUKUSHKIN, S.N.; MATYNA, M.G.; LOVCHANOVSKIY, V.A.; KRAMNIK, T.A.; NECHESOVA, N.I.; MARTYNNENKO, V.A.; KURAKSIN, D.I.; LETYAGIN, N.L.

Intensifying the sintering process by the use of a special charge wetting device. Stal' 23 no.12:1061-1064 D '63. (MIRA 17:2)

1. Dnepropetrovskiy metallurgicheskiy institut, zavod im. Dzerzhinskogo i Yuzhnnyy gornoobogatitel'nyy kombinat.
2. Dnepropetrovskiy metallurgicheskiy institut (for Kovalev, Gotovtsev, Vasil'yev, Zemlyanoy, Kukushkin).
3. Zavod im. Dzerzhinskogo (for Matyna, Lovchanskiy, Kramnik, Nechesova).
4. Yuzhnnyy gornoobogatitel'nyy kombinat (for Martynenko, Kuraksin, Letyagin).

KRAMNIK, V.Yu., inzhener.

Data from investigation of the sintering of oxidized nickel ores.
TSvet. met. 26 no.2:54-57 Mr-Ap '53. (MIRA 10:9)
(Nickel ores)

KRAMNIK, V. Yu.

KRAMNIK, V. Yu.

Further intensification of blast-furnace smelting. TSvet.met. 27
no.6:30-35 N-D '54. (MIRA 10:10)
(Smelting) (Blast furnaces)

KRAMNIK, V.Yu.

Smelting ilmenite concentrates for the preparation of rich
titanium slag. TSvet.met. 33 no.5:49-56 My '60.
(MIRA 13:7)

1. Dneprovskiy titano-magniyevyy zavod.
(Ilmenite) (Slag)

3/520/61/000/005/010/010
D040/5113

AUTHORS: Krasnikh, V.Yu., Gus', S.Yu., Garba, L.S., and Tsvitkov, V.I.

TITLE: Development and application of a method of titanium tetrachloride extraction from chloride pulp

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Titan i ego splavy, no. 5, Moscow, 1961. Metallurgiya i khimiya titana, 267-272

TEXT: A brief description is given of experiments which resulted in a new and better method of $TiCl_4$ extraction from pulp obtained in the chlorination of titanium ore being found. The only method used until recently was hydrolysis with the formation of hydrochloric-acidous hydrogel from which $TiCl_4$ precipitated in the form of metatitanic acid-pitch that had to be dried and again melted in furnaces, so that ready $TiCl_4$ was being turned into raw material which had to be further reprocessed. The new method, developed by research workers, including the authors, is based on the property of molten mass of chlorides to demix and separate into two layers

Card 1/3

Development and application ...

S/598/61/000/005/010/010
D040/D113

at relatively high temperature. A bath of molten NaCl, or any chlorides of alkali metals or alkaline-earth metals may be used for producing a chloride bath in the furnace, and the TiCl₄ pulp, containing chlorides of Al, Fe, Mg, etc., is charged on the top of the chloride bath. A mass of aluminum chlorides and trivalent iron and sodium with a low melting point separates and rises from the bottom portion of the furnace and metal chlorides with a melting point above 500°C sink into the bottom layer. The difference in the top and bottom layer temperature promotes mixing and intensifies the reaction. A common electric shaft furnace, 3700 mm in diameter, was used, though other furnaces may be used, provided they have a heated lower zone. The furnace was fitted with an air-tight charging hopper with a screw feeder for pulp, and another hopper for NaCl, and was provided with a tap hole at the top, in addition to the usual bottom tap hole. The upper melt layer has to be tamped once daily through the top hole. The space between the furnace electrodes is filled with a carbon packing which serves as an electric resistor, providing heat and maintaining high temperature. The

Card 2/3

5/598/61/000/005/010/010
D040/D113

Development and application ...

product is tapped into conical steel containers and is removed from them without difficulty. A fluid chloride bath is maintained permanently in the furnace above the carbon packing, and pulp is loaded onto the top of it. Pulp is brought in containers from all chlorination furnaces and from the $TiCl_4$ purifying section, and poured into the charging hopper. The method has been tested and introduced industrially. The obtained $TiCl_4$ contains 0.01-0.046% Fe and 0.59-0.218% Al. The new method increased the $TiCl_4$ output by 5%.

Card 3/3

S/137/62/000/006/044/163
A006/A101

AUTHORS: Kramnik, V. Yu., Tsvetkov, V. I., Misheneva, Ye. V.

TITLE: Experimental tests of a centrifuge and ceramic filters for the purification of commercial titanium tetrachloride

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 6, 1962, 15, abstract 6G110
(In collection: "Titan i yego splavy", no. 5, Moscow, AN SSSR, 1961, 273 - 278)

TEXT: Tests were made with new equipment, the AOF-600 (AOG-600) centrifuge and ceramic filters, intended for the purification of commercial $TiCl_4$. As a result of the tests the given centrifuge design was found to be unsuitable for extended operation. A series of other deficiencies was also noted. The ceramic filters showed 18 - 38% porosity. They were tested in the shops. The following results were obtained: 1. The average pulp filtration rate is 600 kg/hour. 2. Optimum filtration time between the separations of the precipitate is 30 min. 3. The filtrate is transparent. 4. The precipitate contains 450 - 760 g/kg of pulp. 5. The filtering capacity of a ceramic filter is fully restored by N_2 blast.

G. Svodtseva

[Abstracter's note: Complete translation]

Card 1/1

3/137/62/000/006/034/163
A006/A101

AUTHORS: Lukashenko, E. Ye., Kramnik, V. Yu., Garmata, V. A., Sergiyenko, S.N.

TITLE: Development and assimilation of magnesium-thermal reduction of titanium tetrachloride in retorts without an inserted reaction beaker

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 6, 1962, 14, abstract 6G100
(In collection: "Titan i yego splavy", no. 6, Moscow, AN SSSR, 1961,
23 - 26)

TEXT: Industrial experiments of reducing and vacuum-separating $TiCl_4$ in retorts without beakers make it possible 1) to raise the coefficient of useful utilization of the reactor volume from 35 - 40 to 50 - 60%, and the cyclic yield of Ti-sponge by 50 - 60%; 2) to raise the hourly output of reduction and separation furnaces by 30 - 50%; 3) to raise the labor efficiency of the main production staff by 30% in this conversion department. Moreover, apparatus without beakers assure the production of high-quality Ti-sponge.

[Abstracter's note: Complete translation]

G. Svoitseva

Card 1/1

S/598/61/000/006/034/034
D217/D303

AUTHORS: Kramnik, V.Yu., and Fal'kevich, E.S.

TITLE: Experiments on the use of titanium articles in
aggressive media

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Titan i
yego splavy. no. 6, 1961. Metallotermiya i elektro-
khimiya titana, 237 - 239

TEXT: The corrosion resistance of Ti and some of its alloys in
aggressive media, mainly HCl solutions was tested. For this purpo-
se, pump turbines, ventilator rotors, pulp mixers and a drainage
gutter grate were made. The pump turbines used normally work in
HCl media containing 20 - 200 and 5 - 10 g/l HCl. The titanium tur-
bine did not exhibit any signs of corrosion after working inter-
mittently for 153 days. The ventilators with titanium rotors, af-
ter working constantly for 6 months in a room of high HCl vapor
concentration, did not suffer a decrease in thickness of the rotor
blades, whereas rotors made from steel 3 had reached the end of

Card 1/2